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SECTION TWO - PROPOSAL FORMS
Baccalaureate Programs in Airway Science

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SECTION TWO - PROPOSAL FORMS
Baccalaureate Programs in Airway Science

FEDERAL AVIATION ADMINISTRATION
UNIVERSITY AVIATION ASSOCIATION
AIRWAY SCIENCE CURRICULUM PROPOSAL

PART I.
General Information

Instructions

Please check all applicable columns or blocks, and type or print the requested information in the spaces provided. If necessary, responses may be continued on a separate sheet of paper (for example, Page 1-2, item 3 continued).

NOTE: Please submit 2 current catalogs describing the institution's aviation/aerospace offering(s). This form and catalogs should be mailed to:

Federal Aviation Administration
Office of Training and Higher Education, AHT-30
Airway Science Curriculum Program
400 7th St., SW, Room PL-1100
Washington, DC 20590

1. PROPOSAL CLASSIFICATION

(check all that apply)

( ) Initial (Specify) _____
( ) Add area(s) of concentration (AOC)
(Specify) _____
_____
( ) Revision to core
( ) Revision to AOC(s)
(Specify) _____
_____

2. INSTITUTIONAL DATA

Official Name of Institution _____

Address (Street or P.O. Box) _____

Location (City, State, Zip) _____

FEDERAL AVIATION ADMINISTRATION
UNIVERSITY AVIATION ASSOCIATION
AIRWAY SCIENCE CURRICULUM PROPOSAL

PART I.
General Information

Instructions

Please check all applicable columns or blocks, and type or print the requested information in the spaces provided. If necessary, responses may be continued on a separate sheet of paper (for example, Page 1-2, item 3 continued).

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( ) Revision to core
( ) Revision to AOC(s)
(Specify) _____
_____

2. INSTITUTIONAL DATA

Official Name of Institution _____

Address (Street or P.O. Box) _____

Location (City, State, Zip) _____

3. EXISTING AVIATION PROGRAM

Enter the title, and check the applicable degree column(s). Indicate the page(s) in which each aviation offering is described in the institution's catalog.

* Degree Abbreviations: D = Doctorate A = Associate
M = Master's C = Certificate
B = Bachelor's 0 = Other

Title of Program	+ Degree Abbrev.	Page in Catalog	If certificate or other non-degree offering specify nature and level (e.g. certificate, etc.)

4. PROPOSED AIRWAY SCIENCE OR AIRWAY SCIENCE TECHNOLOGY CURRICULUM

Proposal Correspondent _____

Mailing Address _____

Salutation (check one) ( ) Dr. ( ) Mr. ( ) Mrs. ( ) Miss ( ) Ms.

Position Title _____

Office Telephone ( ) _____ ( ) _____
Alternate

Airway Science Areas of Concentration Offered

Indicate for each area of concentration **(AOC)** the identification of the degrees within the college or university under which the proposed Airway Science curriculum will be offered:

AIRWAY SCIENCE **AOC**:	TYPE NAME OF DEGREE/MAJOR:
e.g., Aircraft Systems Management	Bachelor of Science in Professional Flight

Identification of **Airway** Science Students

Will students in each Airway Science **AOC** be identified separately on college transcripts from other aviation students ( ) Yes ( ) No. If No, how will such students be separately identified? _____

_____

Other **participating institutions/agencies** (use additional sheets if needed)

Name of Institution or Agency	**AOC**	**Nature of Participation**

(If consortium or articulation agreement, include copy of proposed agreement.)

Airway Science Areas of Concentration Offered

Indicate for each area of concentration **(AOC)** the identification of the degrees within the college or university under which the proposed Airway Science curriculum will be offered:

AIRWAY SCIENCE **AOC**:	TYPE NAME OF DEGREE/MAJOR:
e.g., Aircraft Systems Management	Bachelor of Science in Professional Flight

Identification of **Airway** Science Students

Will students in each Airway Science **AOC** be identified separately on college transcripts from other aviation students ( ) Yes ( ) No. If No, how will such students be separately identified? _____

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Name of Institution or Agency	**AOC**	**Nature of Participation**

(If consortium or articulation agreement, include copy of proposed agreement.)

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AIRWAY SCIENCE **AOC**:	TYPE NAME OF DEGREE/MAJOR:
e.g., Aircraft Systems Management	Bachelor of Science in Professional Flight

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Will students in each Airway Science **AOC** be identified separately on college transcripts from other aviation students ( ) Yes ( ) No. If No, how will such students be separately identified? _____

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Other **participating institutions/agencies** (use additional sheets if needed)

Name of Institution or Agency	**AOC**	**Nature of Participation**

(If consortium or articulation agreement, include copy of proposed agreement.)

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

CORE - GENERAL STUDIES (24-30 semester hours)

General Studies

English Composition	3
Oral Communication	3
Psychology	3
Humanities and Social Science Electives	15-21
Range of Credits	24-30

This area includes coursework which teaches both oral and written communications skills. Specifically, written communication must include instruction in forms of expository writing. Oral communication skills shall include both formal and informal methods of verbal communication. In addition, coursework relevant to this area will include instruction in the following topics: (i) the social, cultural, political, and economic development of American and/or Western civilization; (ii) the study of human behavior; and (iii) the cultural aspects of knowledge such as philosophy, art, drama, music, literature, religion or language.

Notes:

1. Course listing by name is required; however, the actual course name may differ from the generic course name used.
2. If additional pages are needed, such as when more electives need to be listed or the course descriptions are too long for the space provided, continue the numbering format used herein with a further division or subdivision as necessary, e.g., 2-7d(1).
3. See section 1 Curriculum Guidelines of the Curriculum Proposal package for other instructions and comments concerning the preparation of this Section.

Subtotal _____ hr

 Original FAA Approved Proposal Date_____ * First Revision Date ** Second Revision Date____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

_____
Institution

Generic Curriculum Course Description CORE - GENERAL STUDIES (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
English Composition **(3).** Fundamentals of expository writing including grammar, sentence structure, punctuation, paragraphing, and organization and development of material as illustrated in selected readings.		
Oral Communications **(3).** Introduction to the basic principles of oral communication by means of formal and informal presentations. Development of research and speaking skills through composition and delivery. Stresses original thinking, effective organization of material and concise presentation of ideas.		
Psychology (3). Introduction to the fundamental principles of psychology and the application of scientific method as it relates to the understanding of human behavior.		

Subtotal_____ **hrs**

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

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Institution

Generic Curriculum Course Description CORE - GENERAL STUDIES (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
English Composition **(3).** Fundamentals of expository writing including grammar, sentence structure, punctuation, paragraphing, and organization and development of material as illustrated in selected readings.		
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Subtotal_____ **hrs**

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

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Institution

Generic Curriculum Course Description CORE - GENERAL STUDIES (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
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Subtotal_____ **hrs**

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

_____
Institution

Generic Curriculum Course Description CORE - GENERAL STUDIES (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Humanities and Social Science Electives (continued)		

Subtotal _____ **hrs**

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

_____
Institution

Generic Curriculum Course Description CORE - GENERAL STUDIES (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Humanities and Social Science Electives (continued)		

Subtotal _____ **hrs**

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

Generic Curriculum Course Description CORE - MATH/SCIENCE/TECH (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Chemistry (4). Introduction to the principles and theories of modern chemistry, including atomic structures, chemical bonding, formulas and equations, properties of solutions, gases, liquids and solids. Laboratory experience to demonstrate principles introduced in lectures. Required for: Airway Elect. Systems AOC Aviation Maint. Mgt. AOC		
Calculus II (3). A continuation of integral and differential calculus. Required for: Airway Computer Sc. AOC Airway Elect. System AOC		
Math Analysis (3). Analysis of applied mathematical principles and techniques; topics to include linear programming, curve-fitting, elementary probability and descriptive statistics, matrix theory and graphing, Required for: Airway Elect. Systems AOC		

Subtotal_____ hrs

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

Generic Curriculum Course Description CORE - MATH/SCIENCE/TECH (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Electives (9-16). Chemistry, Calculus II and Math Analysis hours, if used, count as elective hours.		

Subtotal _____ hrs

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

Generic Curriculum Course Description CORE - MATH/SCIENCE/TECH (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Electives (9-16). Chemistry, Calculus II and Math Analysis hours, if used, count as elective hours.		

Subtotal _____ hrs

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

_____

Institution

Generic Curriculum Course Description CORE - COMPUTER SCIENCE (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
List the Computer Science courses and/or the equivalent coursework that meet the knowledge and skills required.		

Subtotal_____ **hrs**

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

_____

Institution

Generic Curriculum Course Description CORE - COMPUTER SCIENCE (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
List the Computer Science courses and/or the equivalent coursework that meet the knowledge and skills required.		

Subtotal_____ **hrs**

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

Generic Curriculum Course Description CORE - MANAGEMENT (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Principles of Management (3). An introduction to the theories, techniques and concepts of management and its functions of planning, organizing, influencing, and controlling in solving management problems. Topics include the classical, behavioral, management science and systems approaches to managing.		
Organizational Behavior (3). Introduction to theoretical behavioral science concepts applied to the formal organizational structure. Exposes the student to a variety of responses for dealing with issues of human relations and management. Topics include individual and group behavior in organizations, group dynamics, solving communication problems, conflict, implementing change, perceptions, attitudes and motivation.		
Electives (3-6)		

Subtotal _____ hrs

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

Generic Curriculum Course Description CORE - MANAGEMENT (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Electives (3-6)		

Subtotal _____ hrs

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

Generic Curriculum Course Description CORE - MANAGEMENT (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Electives (3-6)		

Subtotal _____ hrs

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

Generic Curriculum Course Description CORE - MANAGEMENT (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Electives (3-6)		

Subtotal _____ hrs

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

_____
Institution

Generic Curriculum Course Description CORE - AVIATION (15 semester hours)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Introduction to Aviation (3). Presents an overview of aviation, enabling the student to gain an appreciation of the complexities of the field of aeronautics. Course content includes historical background, fundamentals of flight and aeronautical technology, aviation safety, regulations, the social and economic impact of aerospace and future developments. **OR** Private Pilot Course (3). Ground school instruction in preparation for the FAA Private Pilot written exam; ground instruction covers basic aerodynamics, FAA regulations, navigation, safety, weather		
Aviation Legislation (3). Emphasizes legal concepts concerning aviation as related to operations, contracts, insurance and liability, regulatory statutes and case law.		

Subtotal _____ hrs

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

Generic Curriculum Course Description CORE - AVIATION (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Classification & Justification (as necessary)
Aviation Safety (3). Presentation and analysis of factors and procedures relating to aviation safety; techniques for accident prevention, development of safety programs, procedures used in accident investigation, the human factor (physiological and psychological), the effect of weather.		
Aviation Electives (6)		

Subtotal _____ hrs

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

Generic Curriculum Course Description CORE - AVIATION (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Classification & Justification (as necessary)
Aviation Safety (3). Presentation and analysis of factors and procedures relating to aviation safety; techniques for accident prevention, development of safety programs, procedures used in accident investigation, the human factor (physiological and psychological), the effect of weather.		
Aviation Electives (6)		

Subtotal _____ hrs

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

Generic Curriculum Course Description CORE - AVIATION (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Classification & Justification (as necessary)
Aviation Safety (3). Presentation and analysis of factors and procedures relating to aviation safety; techniques for accident prevention, development of safety programs, procedures used in accident investigation, the human factor (physiological and psychological), the effect of weather.		
Aviation Electives (6)		

Subtotal _____ hrs

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

Generic Curriculum Course Description AIRWAY SCIENCE MANAGEMENT AOC (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Air Traffic Control System (3). A study of the National air traffic control system with emphasis on basic air traffic control procedures; the role of centers, approach control, towers, and flight service stations; communications, navigation procedures, radar operations, and facilities.		
Air Transportation (3) A survey of the historical development of the air transportation system covering facilities, impact of regulations, problems encountered in commercial air transportation, future requirements, airline operations, economics, and social implications.		
Airport Management (3). A comprehensive study of airport operations and management; includes analysis of the role of the airport manager in planning, finance and administration; public relations, social, political and environmental considerations; operational requirements and facility maintenance.		

Subtotal_____ hrs

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

Generic Curriculum Course Description AIRWAY SCIENCE MANAGEMENT AOC (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Air Traffic Control System (3). A study of the National air traffic control system with emphasis on basic air traffic control procedures; the role of centers, approach control, towers, and flight service stations; communications, navigation procedures, radar operations, and facilities.		
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AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

Generic Curriculum Course Description AIRWAY SCIENCE MANAGEMENT AOC (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Management Decision-Making (3). Role of decision theory studies in the management decision-making and problem solving process; application of quantitative techniques, simulation, linear programming, game theory.		
Psychology &/or Human Behavior &/or Communications Electives **(9-12)** (upper division level only)		

Subtotal _____ **hrs**

Pg. 2-7c Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

Generic Curriculum Course Description AIRWAY SCIENCE MANAGEMENT AOC (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Management Decision-Making (3). Role of decision theory studies in the management decision-making and problem solving process; application of quantitative techniques, simulation, linear programming, game theory.		
Psychology &/or Human Behavior &/or Communications Electives **(9-12)** (upper division level only)		

Subtotal _____ **hrs**

Pg. 2-7c Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

_____

Institution

Generic Curriculum Course Description AIRWAY SCIENCE MANAGEMENT **AOC** (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number	Explanation, Clarification & Justification (as necessary)
Aviation Management or Business Management Electives (continued)		

Subtotal_____ hrs

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

AIRWAY COMPUTER SCIENCE AOC (40 semester hours)

Airway Computer Science	Semester Hours
Computer Programming II	3
Advanced Computer Programming	3
Computer Operation Systems	3
Assembly Language Programming	3
Data Structures	3
Computer Methods and Applications I	3
Computer Methods and Applications II	3
Theory of Programming Languages and Complex Construction	3
Computer Architecture	3
Computer Electives	13
Minimum semester hours for AOC	40

This concentration provides students with a knowledge of computer hardware/software and operations, preparing them to function in areas such as computer operations, software design, systems analysis and computer programming.

Subtotal _____ hrs

 Original FAA Approved Proposal Date-_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

AIRWAY COMPUTER SCIENCE AOC (40 semester hours)

Airway Computer Science	Semester Hours
Computer Programming II	3
Advanced Computer Programming	3
Computer Operation Systems	3
Assembly Language Programming	3
Data Structures	3
Computer Methods and Applications I	3
Computer Methods and Applications II	3
Theory of Programming Languages and Complex Construction	3
Computer Architecture	3
Computer Electives	13
Minimum semester hours for AOC	40

This concentration provides students with a knowledge of computer hardware/software and operations, preparing them to function in areas such as computer operations, software design, systems analysis and computer programming.

Subtotal _____ hrs

 Original FAA Approved Proposal Date-_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

Generic Curriculum Course Description AIRWAY COMPUTER SCIENCE **AOC** (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Assembler Language Programming (3). Introduction to machine structure and organization using assembler language; machine representation of the number system, instruction sets, condition codes, registers, addressing, bit manipulation; programming applications in assembly.		
Data Structures (3). Fundamentals of information organization and concepts of data representation; arrays, stacks, queues, linked lists, trees, dynamic storage allocations, graphs, advanced sorting, searching and merging techniques, hashing, symbol tables.		
Computer Methods and Applications I (3). Presentation of methods and techniques for use in solving theoretical problems; topics may include simulation and optimization techniques involving linear programming models, Monte Carlo methods, regression analysis, numerical analysis, and other simulated problems.		

Subtotal _____ hrs

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

_____
Institution

Generic Curriculum Course Description AIRWAY COMPUTER SCIENCE **AOC** (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Computer Methods and Applications II **(3).** Advanced techniques involving application of the computer for solving complex problems; topics may include artificial intelligence, graphics generation, statistical models, advanced techniques in data base administration.		
Theory of Programming Languages and Complex Construction **(3).** Introduction to formal grammar and its relationship with the machine, analysis of language structure, comparison of high level languages, techniques for translation to machine code.		
Computer Architecture **(3).** Overview of organization and design of the computer, system components such as arithmetic and control units, memory, I/O and mass storage devices; system configuration and analysis, virtual addressing.		

Subtotal_____ **hrs**

 Original FAA Approved Proposal Date_____ *First Revision Date_____ **Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

_____
Institution

Generic Curriculum Course Description AIRWAY COMPUTER SCIENCE **AOC** (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Computer Methods and Applications II **(3).** Advanced techniques involving application of the computer for solving complex problems; topics may include artificial intelligence, graphics generation, statistical models, advanced techniques in data base administration.		
Theory of Programming Languages and Complex Construction **(3).** Introduction to formal grammar and its relationship with the machine, analysis of language structure, comparison of high level languages, techniques for translation to machine code.		
Computer Architecture **(3).** Overview of organization and design of the computer, system components such as arithmetic and control units, memory, I/O and mass storage devices; system configuration and analysis, virtual addressing.		

Subtotal_____ **hrs**

 Original FAA Approved Proposal Date_____ *First Revision Date_____ **Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

Generic Curriculum Course Description AIRWAY COMPUTER SCIENCE **AOC** (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Computer Electives (continued)		

Subtotal_____ **hrs**

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

Generic Curriculum Course Description AIRWAY COMPUTER SCIENCE **AOC** (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Computer Electives (continued)		

Subtotal_____ **hrs**

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

Generic Curriculum Course Description AIRCRAFT SYSTEMS MANAGEMENT AOC (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Private Pilot Flight (2). Flight instruction in preparation for FAA Private Pilot Certification exam includes required dual and solo to meet requirements of FAR Part 141		
Commercial Pilot Certification (5). Ground and flight instruction in preparation for the FAA Commercial Pilot written exam and Commercial Pilot certification; instruction emphasizes advanced aerodynamics, aircraft performance, precision maneuvers, extended cross country and night flight, relevant FAA regulations, introduction to advanced systems and transition to more sophisticated aircraft.		
Instrument Rating (5). Ground and flight instruction in preparation for the FAA Instrument written exam and completion of requirements for the FAA Instrument rating; concepts and practical experience related to instrument and weather flying, IFR procedures and FAA regulations, navigation by radio, and instrument approach.		

Subtotal _____ hrs

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

Generic Curriculum Course Description AIRCRAFT SYSTEMS MANAGEMENT AOC (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Private Pilot Flight (2). Flight instruction in preparation for FAA Private Pilot Certification exam includes required dual and solo to meet requirements of FAR Part 141		
Commercial Pilot Certification (5). Ground and flight instruction in preparation for the FAA Commercial Pilot written exam and Commercial Pilot certification; instruction emphasizes advanced aerodynamics, aircraft performance, precision maneuvers, extended cross country and night flight, relevant FAA regulations, introduction to advanced systems and transition to more sophisticated aircraft.		
Instrument Rating (5). Ground and flight instruction in preparation for the FAA Instrument written exam and completion of requirements for the FAA Instrument rating; concepts and practical experience related to instrument and weather flying, IFR procedures and FAA regulations, navigation by radio, and instrument approach.		

Subtotal _____ hrs

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

Generic Curriculum Course Description AIRCRAFT SYSTEMS MANAGEMENT **AOC** (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy); Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Flight Instructor Airplane (5). Ground and flight instruction preparing the student for flight instructor certification; course includes flight instruction methodology, instructor responsibilities, and comprehensive coverage of flight maneuvers necessary for instructing private and commercial students. (Recommended upper division level)		
Flight Instructor Instrument (3). Covers ground and flight instruction necessary to complete requirements for a flight instructor instrument rating; includes presentation of methodology used in teaching instrument flight. (Recommended upper division level)		
Advanced Aerodynamics and Aircraft Performance (3). Advanced theories of flight and flight factors including airfoil shape, drag, velocity, lift and thrust, stability and control; advanced principles of performance including capabilities and limitations, performance design criteria, load factors, weight and balance charts, comparative analysis of aircraft, certification of aircraft. (Upper Division Only)		

Subtotal _____ **hrs**

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

Generic Curriculum Course Description AIRCRAFT SYSTEMS MANAGEMENT **AOC** (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy); Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Flight Instructor Airplane (5). Ground and flight instruction preparing the student for flight instructor certification; course includes flight instruction methodology, instructor responsibilities, and comprehensive coverage of flight maneuvers necessary for instructing private and commercial students. (Recommended upper division level)		
Flight Instructor Instrument (3). Covers ground and flight instruction necessary to complete requirements for a flight instructor instrument rating; includes presentation of methodology used in teaching instrument flight. (Recommended upper division level)		
Advanced Aerodynamics and Aircraft Performance (3). Advanced theories of flight and flight factors including airfoil shape, drag, velocity, lift and thrust, stability and control; advanced principles of performance including capabilities and limitations, performance design criteria, load factors, weight and balance charts, comparative analysis of aircraft, certification of aircraft. (Upper Division Only)		

Subtotal _____ **hrs**

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AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

Generic Curriculum Course Description AIRCRAFT SYSTEMS MANAGEMENT AOC (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Aviation Electives (6). (Upper division level only)		
	Total Hours in this AOC - (min. of 40 sem. hrs. required)	

Subtotal _____ hrs

Pg. 2-9e Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

AIRWAY ELECTRONIC SYSTEMS (40 semester hrs.)

Airway Electronic Systems	Semester Hours
Theory of Electronics	3
Microprocessor Theory and Application	3
Advanced Computer Programming	3
Solid State Devices	3
Integrated Circuits	3
Engineering Drawing	2
Electrical Circuits	3
Digital Logic Applications	3
Electronic and Power Principles	2
Electronics/Avionics Electives	15
Minimum semester hours for AOC	40

This concentration is designed to provide students with knowledge of basic and advanced electronics theory, preparing them to work in the maintenance, troubleshooting, testing, and development of avionics and navigation equipment.

Subtotal _____ hrs

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

AIRWAY ELECTRONIC SYSTEMS (40 semester hrs.)

Airway Electronic Systems	Semester Hours
Theory of Electronics	3
Microprocessor Theory and Application	3
Advanced Computer Programming	3
Solid State Devices	3
Integrated Circuits	3
Engineering Drawing	2
Electrical Circuits	3
Digital Logic Applications	3
Electronic and Power Principles	2
Electronics/Avionics Electives	15
Minimum semester hours for AOC	40

This concentration is designed to provide students with knowledge of basic and advanced electronics theory, preparing them to work in the maintenance, troubleshooting, testing, and development of avionics and navigation equipment.

Subtotal _____ hrs

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AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

Generic Curriculum Course Description AIRWAY ELECTRONIC SYSTEMS **AOC** (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Solid State Devices (3). Theory, construction and application of semiconductor devices; topics also include discussion of amplifiers, diodes, transistors and other solid state electronic devices.		
Integrated Circuits (3). Theory, design and operation of circuits consisting of active and passive components; analog and digital integrated circuits, operational amplifiers.		
Engineering Drawing (2). Technical drawing theory to include techniques of orthographic projection, drafting conventions, instrument use, dimensioning, sections, and layout and execution of working drawings and blue print reading. Introduction to standards manuals and documentation systems.		

Subtotal _____ **hrs**

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

Generic Curriculum Course Description AIRWAY ELECTRONIC SYSTEMS **AOC** (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Solid State Devices (3). Theory, construction and application of semiconductor devices; topics also include discussion of amplifiers, diodes, transistors and other solid state electronic devices.		
Integrated Circuits (3). Theory, design and operation of circuits consisting of active and passive components; analog and digital integrated circuits, operational amplifiers.		
Engineering Drawing (2). Technical drawing theory to include techniques of orthographic projection, drafting conventions, instrument use, dimensioning, sections, and layout and execution of working drawings and blue print reading. Introduction to standards manuals and documentation systems.		

Subtotal _____ **hrs**

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AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

Generic Curriculum Course Description AIRWAY ELECTRONIC SYSTEMS AOC (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Electronics/Avionics Electives (15).		

Subtotal _____ hrs

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

Generic Curriculum Course Description AIRWAY ELECTRONIC SYSTEMS AOC (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Electronics/Avionics Electives (15).		

Subtotal _____ hrs

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

_____ **PART II.**

Institution

AVIATION MAINTENANCE MANAGEMENT (40 semester hrs.)

The curriculum must include all material to meet the minimum requirements for FAR 147 Aviation Maintenance Technicians Schools Airframe and Powerplant Curricula: specific details are contained in FAR Part 147, Appendices B - General Curriculum Subjects; C - Airframe Curriculum Subjects; and, D - Powerplants Curriculum subjects.

An example of the content for a typical approved curriculum is as follows:

Technical Drawing
Aircraft Operations
Aircraft Materials
Propulsion
Propulsion Laboratory
Structures
Structures Laboratory
Aircraft Systems
Avionics/Electronics Systems

A minimum of 40 semester hours is required for the AOC including at least six hours of Upper Division Technical Electives.

Note: Units not assigned above to permit maximum curriculum flexibility.

The sponsoring institution must hold a valid FAR Part 147 Certificate with appropriate ratings and/or have a contractual/articulation agreement with such a certified institution.

This concentration focuses on both theoretical and practical knowledge of airframe, powerplant, and propeller theory, maintenance, and repair, as well as the many relevant technical documentation methods, specifications, and standards. Graduates of this program will hold the FAA Mechanic Certificate with Airframe and Powerplant Ratings, and will be prepared to work in the field of aircraft maintenance.

Subtotal _____ hrs

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

_____ **PART II.**

Institution

AVIATION MAINTENANCE MANAGEMENT (40 semester hrs.)

The curriculum must include all material to meet the minimum requirements for FAR 147 Aviation Maintenance Technicians Schools Airframe and Powerplant Curricula: specific details are contained in FAR Part 147, Appendices B - General Curriculum Subjects; C - Airframe Curriculum Subjects; and, D - Powerplants Curriculum subjects.

An example of the content for a typical approved curriculum is as follows:

Technical Drawing
Aircraft Operations
Aircraft Materials
Propulsion
Propulsion Laboratory
Structures
Structures Laboratory
Aircraft Systems
Avionics/Electronics Systems

A minimum of 40 semester hours is required for the AOC including at least six hours of Upper Division Technical Electives.

Note: Units not assigned above to permit maximum curriculum flexibility.

The sponsoring institution must hold a valid FAR Part 147 Certificate with appropriate ratings and/or have a contractual/articulation agreement with such a certified institution.

This concentration focuses on both theoretical and practical knowledge of airframe, powerplant, and propeller theory, maintenance, and repair, as well as the many relevant technical documentation methods, specifications, and standards. Graduates of this program will hold the FAA Mechanic Certificate with Airframe and Powerplant Ratings, and will be prepared to work in the field of aircraft maintenance.

Subtotal _____ hrs

 Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

_____

Institution

Generic Curriculum Course Description AVIATION MAINTENANCE MANAGEMENT **AOC** (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification **&** Justification (as necessary)
Propulsion **Laboratory.** To include laboratory practice in the use of appropriate tools for the maintenance of aircraft propulsion systems, including propellers, measuring instruments, testing and repairing engines, inspection and overhaul of aircraft powerplants, relate systems and applicable **FARs.**		
Structures. Introduction to the mechanics and properties of airframe materials, familiarization with FAA requirements concerning aircraft structures and related systems. Procedures used in airframe and system inspection, maintenance, repair and overhaul, concepts of airworthiness and relevant **FARs.**		
Structures **Laboratory.** Practical laboratory experience in topics introduced in lectures, with emphasis on structural and system assembly, rigging, inspection and repair.		

Subtotal _____ **hrs**

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AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

_____

Institution

Generic Curriculum Course Description AVIATION MAINTENANCE MANAGEMENT **AOC** (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification **&** Justification (as necessary)
Propulsion **Laboratory.** To include laboratory practice in the use of appropriate tools for the maintenance of aircraft propulsion systems, including propellers, measuring instruments, testing and repairing engines, inspection and overhaul of aircraft powerplants, relate systems and applicable **FARs.**		
Structures. Introduction to the mechanics and properties of airframe materials, familiarization with FAA requirements concerning aircraft structures and related systems. Procedures used in airframe and system inspection, maintenance, repair and overhaul, concepts of airworthiness and relevant **FARs.**		
Structures **Laboratory.** Practical laboratory experience in topics introduced in lectures, with emphasis on structural and system assembly, rigging, inspection and repair.		

Subtotal _____ **hrs**

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AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

Generic Curriculum Course Description AVIATION MAINTENANCE MANAGEMENT AOC (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Technical Electives (continued). (upper division level only)		
	Total Hours in this AOC - (min. of 40 sem. hrs. required.)	

Subtotal _____ hrs

Pg. 2-1 Id Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

Generic Curriculum Course Description AVIATION MAINTENANCE MANAGEMENT AOC (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Technical Electives (continued). (upper division level only)		
	Total Hours in this AOC - (min. of 40 sem. hrs. required.)	

Subtotal _____ hrs

Pg. 2-1 Id Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

AIRWAY SCIENCE CURRICULUM PROPOSAL

PART II.

Institution

Generic Curriculum Course Description AVIATION MAINTENANCE MANAGEMENT AOC (continued)	Proposed Curriculum Course Description (Use Actual Catalog Copy). Indicate revisions with an appropriate number of asterisks preceding the course number.	Explanation, Clarification & Justification (as necessary)
Technical Electives (continued). (upper division level only)		
	Total Hours in this AOC - (min. of 40 sem. hrs. required.)	

Subtotal _____ hrs

Pg. 2-1 Id Original FAA Approved Proposal Date_____ * First Revision Date_____ ** Second Revision Date_____

Math/Science/Technology

1. ( )
2. ( )
3. ( )
4. ( )
5. ( )
6. ( )
7. ( )
8. ( )
9. ( )

Subtotal (___)

Computer Science

1. ( )
2. ( )
3. ( )
4. ( )

Subtotal (___)

Management

1. ( )
2. ( )
3. ( )
4. ( )

Subtotal (___)

Math/Science/Technology

1. ( )
2. ( )
3. ( )
4. ( )
5. ( )
6. ( )
7. ( )
8. ( )
9. ( )

Subtotal (___)

Computer Science

1. ( )
2. ( )
3. ( )
4. ( )

Subtotal (___)

Management

1. ( )
2. ( )
3. ( )
4. ( )

Subtotal (___)

Math/Science/Technology

1. ( )
2. ( )
3. ( )
4. ( )
5. ( )
6. ( )
7. ( )
8. ( )
9. ( )

Subtotal (___)

Computer Science

1. ( )
2. ( )
3. ( )
4. ( )

Subtotal (___)

Management

1. ( )
2. ( )
3. ( )
4. ( )

Subtotal (___)

Airway Computer Science Area of Concentration

1. ( )
2. ( )
3. ( )
4. ( )
5. ( )
6. ( )
7. ( )
8. ( )
9. ( )
10. ( )
11. ( )
12. ( )
13. ( )
14. ( )
15. ( )
16. ( )
17. ( )
18. ( )
19. ( )

AOC Total ( )___

Original FAA Approved Proposal Date _____

Revision Date_____ (Indicate course additions or changes with asterisk)

Airway Computer Science Area of Concentration

1. ( )
2. ( )
3. ( )
4. ( )
5. ( )
6. ( )
7. ( )
8. ( )
9. ( )
10. ( )
11. ( )
12. ( )
13. ( )
14. ( )
15. ( )
16. ( )
17. ( )
18. ( )
19. ( )

AOC Total ( )___

Original FAA Approved Proposal Date _____

Revision Date_____ (Indicate course additions or changes with asterisk)

Airway Electronic **Systems** Area of Concentration

1.		( )
2.		( )
3.		( )
4.		( )
5.		( )
6.		( )
* 7.		( )
8.		( )
9.		( )
10.		( )
11.		( )
12.		( )
13.		( )
14.		( )
15.		( )
16.		( )
17.		( )
18.		( )
* 19.		( )
	AOC Total	( )

Original FAA Approved Proposal Date _____

Revision Date_____ (Indicate course additions or changes with asterisk)

Airway Electronic **Systems** Area of Concentration

1.		( )
2.		( )
3.		( )
4.		( )
5.		( )
6.		( )
* 7.		( )
8.		( )
9.		( )
10.		( )
11.		( )
12.		( )
13.		( )
14.		( )
15.		( )
16.		( )
17.		( )
18.		( )
* 19.		( )
	AOC Total	( )

Original FAA Approved Proposal Date _____

Revision Date_____ (Indicate course additions or changes with asterisk)

Airway Electronic **Systems** Area of Concentration

1.		( )
2.		( )
3.		( )
4.		( )
5.		( )
6.		( )
* 7.		( )
8.		( )
9.		( )
10.		( )
11.		( )
12.		( )
13.		( )
14.		( )
15.		( )
16.		( )
17.		( )
18.		( )
* 19.		( )
	AOC Total	( )

Original FAA Approved Proposal Date _____

Revision Date_____ (Indicate course additions or changes with asterisk)

Courses Changed (continued)

From		To	
Course No.	Hrs.	Course No.	Hrs.
4.		4.	
5.		5.	
6.		6.	
7.		7.	

Revision date _____

*U.S. Government Printing Office: 1993 – 718-698/61107

U.S. Department
of Transportation

**Federal Aviation
Administration**

Airway Science Curriculum Proposal

Baccalaureate Programs

Section Two
January 1993

AHT-30